AMSAT News Service Weekly Bulletins
Issue: ANS-148
Date: 2017-05-28
Sources: amsat-ans-2017-ans-148-weekly-hyperkitty-8adcd0de59.txt

---

AMSAT NEWS SERVICE
ANS-148

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

In this edition:

* 2017 AMSAT-NA Board of Directors Nominations Notice
* Spring 2017 CubeSat Workshop Presentations and Video Posted
* LilacSat-1 Deployed From ISS and Is Operational
* February launch for Jordanian CubeSat
* ARISS News
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-148.01
ANS-148 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 148.01
>From AMSAT HQ KENSINGTON, MD.
May 28, 2017
To All RADIO AMATEURS
BID: $ANS-148.01

2017 AMSAT-NA Board of Directors Nominations Notice

It's time to submit nominations for the upcoming AMSAT-NA Board of Directors election. Four directors' terms expire this year: Barry Baines, WD4ASW, Jerry Buxton, N0JY, Drew Glasbrenner, KO4MA, and Bob McGwier, N4HY. In addition, up to two Alternates may be elected for one year terms.

A valid nomination requires either one Member Society or five current individual members in good standing to nominate an AMSAT-NA member for Director. Written nominations, consisting of the nominee's name and call, and the nominating individual's names, calls and individual signatures should be mailed to: AMSAT-NA, 10605 Concord St, #304 Kensington, MD 20895-2526.

In addition to traditional submissions of written nominations, which is the preferred method, the intent to nominate someone may be made by electronic means. These include e-mail, fax, or electronic image of a petition. Electronic petitions should be sent to martha(a)amsat.org or faxed to (301)822-4371.

No matter what means is used, petitions MUST arrive no later than June 15th at the AMSAT-NA office. If the nomination is a traditional written nomination, no other action is required. If it is other than this, i.e. electronic, a verifying traditional written petition MUST be received at the AMSAT-NA office at the above address within 7 days following the close of nominations on June 15th.

ELECTRONIC SUBMISSIONS WITHOUT THIS SECOND, WRITTEN VERIFICATION ARE NOT VALID UNDER THE EXISTING AMSAT-NA BYLAWS.

[ANS thanks AMSAT Office for the above information]

Spring 2017 CubeSat Workshop Presentations and Video Posted

This year was the biggest CubeSat Workshop yet, with almost 550 attendees from 19 different countries

The 2017 CubeSat Developers Workshop has posted all presentations at:

http://mstl.atl.calpoly.edu/~workshop/archive/ (2017 & Spring folders)

You can also find all video footage from the workshop on their YouTube channel:

https://www.youtube.com/channel/UCENz0fNHsDR8Kz3jM6C_VWw

[ANS thanks the CubeSat Team for the above information]

LilacSat-1 Deployed From ISS and Is Operational

LilacSat-1 has improved their documentation correcting their links. The satellite was deployed from ISS and is operational.

https://amsat-uk.org/2017/05/19/lilacsat-1-cubesat-iss/
http://lilacsat.hit.edu.cn/?page_id=594

FM to Codec2 digital audio repeater of LilacSat-1 is now switched on. 145.985 PL 67 UP, 436.510 DOWN

It seems a few folks keep posting LilacSat-1 information in the Twitter format and toss in a few links. Here is another link if it helps any ...

http://destevez.net/2016/10/lilacsat-1-codec-2-downlink/

Built by students at the Harbin Institute of Technology the new LilacSat CubeSat has a 145/436 MHz FM / Codec2-BPSK Digital Voice transponder. It will deploy from the ISS at 0815 GMT Tuesday, May 23. The Lilac 2 satellite multi-mode transponder can work as an APRS digipeater and FM repeater.

The science goals of the mission include building flight software development for an on-orbit test platform, which is used to analyze the effect of space single particle effects on FPGA software function and performance. The satellite also includes equipment for global

flight ADS-B and monitoring and tracking of large wildlife traces and other tasks. The satellite also carries an industrial infrared camera to explore the feasibility and effectiveness of using satellite satellites to monitor the environment.

The FM transponder is expected to be a popular mode using amateur radio FM walkie-talkies or mobile radios. The voice filter passband is in the range of 300~3500 Hz. Below 300Hz below the sub-audio in the form of baseband data emplying a CCSDS mode of 300 bps telemetry data transmission.

The BJ1SI-1 APRS digipeater will immediately forward the received UI frame in real-time.

The BJ1SI-2 APRS digipeater will allow delayed forwarding with a user specified forwarding path and an ASCII coded time delay.

Uplink

+ Frequency 145.985 MHz PL 67
+ Antenna 1/4 wavelength monopole, linear polarization
+ FM repeater Analog voice, no PL
+ APRS Digi AX.25 UI 1200 bps AFSK

Downlink

+ Frequency 436.510 MHz
+ Callsign BJ1SI
+ Antenna Turnstile
   LHCP (Forward, main lobe)
   RHCP (Backward)

+ Telemetry CSP/CSP + AX.25 UI (Cube Satellite Space Protocol) was originally developed by the AAUSAT3 team at the University of Aalborg in Denmark and is an open source, lightweight network layer protocol)
+ FM repeater Analog voice + CSP
+ APRS Digi AX.25 UI 1200 bps AFSK
+ Power 23/27 dBm

[ANS thanks the Harbin Institute of Technology for the above information]

February launch for Jordanian CubeSat

Fourth year electrical engineering student Aya Jaafari is a member of the JY1-SAT team. She says working on the CubeSat has allowed her to practically implement a lot of what she learns theoretically at university

The Jordan Times reports on the country's first CubeSat JY1-SAT which was built under the Masar initiative of the Crown Prince Foundation (CPF), by 16 young Jordanian men and women. The satellite is scheduled to be launched on a mission in February 2018, a date on which the team pins great hopes and ambitions.

These young Jordanians were supervised by a group of experts and academics through their weekly meetings held at the Royal Jordanian Radio Amateurs Society (RJRAS).

JY1-SAT was chosen as a tribute to His Majesty the Late King Hussein
of Jordan whose amateur radio call sign was JY1.

The CubeSat will carry an Amateur Radio FUNcube 435/145 MHz SSB/CW
transponder and a Slow Scan Digital Video (SSDV) system to transmit
stored images reflecting the Jordanian culture and its historical
heritage.

Read the full story at
http://tinyurl.com/ANS148-Jordanian-Nanosat

Royal Jordanian Radio Amateurs Society
https://www.facebook.com/jy6zz/

JY6JY is a dedicated ground station to be used for communication
with JY1-SAT. The call sign JY6JY is registered to the Office of
Royal Highness Crown Prince Al Hussein Bin Abdullah II of Jordan
https://www.qrz.com/db/JY6JY

JY1SAT applies for frequency coordination
https://amsat-uk.org/2017/05/16/jy1sat-frequency-coordination/

[ANS thanks AMSAT-UK for the above information]

ARISS News

+ A Successful contact was made between Saint Joseph School,
  Ronkonkoma, NY and Astronaut Jack Fisher K2FSH using Callsign NA1SS.
  The contact began 2017-05-22 12:35 UTC and lasted about nine and a
  half minutes. Contact was telebridge via W6SRJ.
  ARISS Mentors were Dave AA4KN and Bob WB4SON.

Special Congratulations

ANS would like to congratulate the Santa Rosa Jr College Amateur
Radio Club W6SRJ and trustee Tim Bosma W6MU for their 100th
successful ARISS contact during the telebridge with Saint Joseph
School, Ronkonkoma, NY on May 22

Upcoming ARISS Contact Schedule

Australian Air League South Australia Wing, Elizabeth, South Australia,
Australia, telebridge via W6SRJ
The ISS callsign is presently scheduled to be NA1SS
The scheduled astronaut is Thomas Pesquet KG5FYG
Contact is a go: Wed 2017-05-31 09:35:31 UTC

[ANS thanks ARISS, Charlie AJ9N and David AA4KN for the above
 information]

Satellite Shorts From All Over

+ CubeSat Workshop presentations available

  The 2017 CubeSat Developers Workshop, held in San Luis Obispo CA

April 26-28, was the biggest event yet, with almost 550 attendees from 19 different countries!

All 2017 presentation slides are now available online at http://mstl.atl.calpoly.edu/%7Eworkshop/archive/

You can also find all video footage from the workshop at https://www.youtube.com/channel/UCENz0fNHsDR8Kz3jM6C_VWw

Stay tuned for the announcement of the dates for the 15th Annual Developers Workshop next year http://www.cubesat.org/

[ANS thanks AMSAT-UK for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
EMike McCardel, AA8EM
aa8em at amsat dot org